ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 161206-1/2016 **Date: 27/04/2017**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206-1
Description of Test : Gradation for BC
Sample Location : Ward No.3
Total Weight of Sample : 3000grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
19	0	0	0.0	100	100
13.2	243	243	8.1	91.9	79-100
9.5	385	628	20.9	79.1	70-88
4.75	280	908	30.3	69.7	53-71
2.36	350	1258	41.9	58.1	42-58
1.18	399	1657	55.2	44.8	34-48
0.6	375	2032	67.7	32.3	26-38
0.3	366	2398	79.9	20.1	18-28
0.15	220	2618	87.3	12.7	12-20
0.075	156	2774	92.5	7.5	4-10

Satisfy the Limits ☑
Does not satisfy the limits
As Furnished by the Customer

Note:

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3. Corrections / erasing invalidate the test report
4. Any anomaly / discrepancy in the test report should be brought to our notice within 7 days from the date of issue

For **ALCON CTL TESTING PVT. LTD.**

Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

Ground Floor, #35, 4th Main, 4th Stage, Next to Trinity Motors. Indl. Town, Basaveshwar Nagar, Bangalore – 560 079, Karnataka, India, Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 161206/2016

Date: 05/04/2017

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprrehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Gradation for BC
Sample Location : Ward No.4
Total Weight of Sample : 3000grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
19	0	0	0.0	100	100
13.2	150	150	6.0	94.0	79-100
9.5	311	461	18.4	81.6	70-88
4.75	255	716	28.6	71.4	53-71
2.36	340	1056	42.2	57.8	42-58
1.18	345	1401	56.0	44.0	34-48
0.6	255	1656	66.2	33.8	26-38
0.3	215	1871	74.8	25.2	18-28
0.15	156	2027	81.1	18.9	12-20
0.075	255	2282	91.3	8.7	4-10

Satisfy the Limits ☑
Does not satisfy the limits
**** As Furnished by the Customer***

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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 161206/2016 **Date: 27/04/2017**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprrehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Sand Replacement for BC
Sample Location : At Site (Ward No.3)

Observations and calculations		Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2301	2315	2241
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6799	6524	6878
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5356	5234	5385
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1243	1329	1258
6	Volume of sand in the hole, V=wb / Ys , cm3	920.74	984.44	931.85
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.50	2.35	2.40
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.54	64.26	63.72
10	Dry Weight =	58.02	60.28	59.82
11	Moisture Content =	5.21	5.05	5.04
12	Field Dry Density (g/cc)	2.37	2.23	2.28

Satisfy the Limits ☑
Does not satisfy the limits
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AE W3

For **ALCON CTL TESTING PVT. LTD.**

Ashwin K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 161206/2016 **Date: 27/04/2017**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprrehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Sand Replacement for BC
Sample Location : At Site (Ward No.3)

Observations and calculations		Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2355	2315	2336
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6896	6524	6847
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5358	5234	5386
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1276	1329	1259
6	Volume of sand in the hole, V=wb / Ys , cm3	945.19	984.44	932.59
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.49	2.35	2.50
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.59	64.26	63.72
10	Dry Weight =	58.82	60.28	59.82
11	Moisture Content =	5.21	5.05	5.04
12	Field Dry Density (g/cc)	2.36	2.23	2.38

Satisfy the Limits ☑
Does not satisfy the limits
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AE W3

For **ALCON CTL TESTING PVT. LTD.**

Ashwini

Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 161206/2016 **Date: 05/04/2017**

TEST REPORT

Name of Client : **Srl. A. Chennareddy, Bengaluru.**
Project* : Comprrehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Sand Replacement for BC
Sample Location : At Site (Ward No.4)

Observations and calculations		Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2300	2312	2311
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6702	6587	6759
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5321	5236	5287
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1262	1275	1248
6	Volume of sand in the hole, V=wb / Ys , cm3	934.81	944.44	924.44
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.46	2.45	2.50
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	64.02	63.58	65.24
10	Dry Weight =	57.22	59.45	60.23
11	Moisture Content =	4.66	5.88	6.01
12	Field Dry Density (g/cc)	2.35	2.30	2.35

Satisfy the Limits ☑
Does not satisfy the limits
**** As Furnished by the Customer***

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For **ALCON CTL TESTING PVT. LTD**

AE W3

Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 161206/2016

Date: 03/04/2016

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprrehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Sand Replacement for DBM
Sample Location : At Site (Ward No.3)

Observations and calculations		Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2215	2369	2304
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6962	6839	6773
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5202	5866	5875
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1245	1292	1267
6	Volume of sand in the hole, V=wb / Ys , cm3	922.22	957.04	938.52
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.40	2.48	2.45
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	59.66	57.84	56.3
10	Dry Weight =	57.33	53.65	52.3
11	Moisture Content =	6.33	6.99	5.87
12	Field Dry Density (g/cc)	2.25	2.30	2.31

Satisfy the Limits ☑
Does not satisfy the limits

**** As Furnished by the Customer***

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For **ALCON CTL TESTING PVT. LTD**

AE W3

Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 161206/2016

Date: 03/04/2017

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprrehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.

Customer's reference : RDM 161206
Description of Test : Sand Replacement for DBM
Sample Location : At Site (Ward No.3)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2263	2442	2366
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6954	6893	6853
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5323	5299	5169
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1281	1269	1298
6	Volume of sand in the hole, V=wb / Ys , cm3	948.89	940.00	961.48
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.38	2.60	2.46
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	58.78	55.62	57.36
10	Dry Weight =	54.36	50.23	55.21
11	Moisture Content =	6.32	5.89	5.36
12	Field Dry Density (g/cc)	2.23	2.44	2.33

☑ *Satisfy the Limits*
Does not satisfy the limits

** As Furnished by the Customer*

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Ashwini K, BE, M
Quality Manager

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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 161206/2016 **Date: 03/04/2017**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Sand Replacement for DBM
Sample Location : At Site (Ward No.3)

Observations and calculations		Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2263	2257	2269
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6960	6950	6926
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5342	5350	5347
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1281	1269	1255
6	Volume of sand in the hole, V=wb / Ys , cm3	948.89	940.00	929.63
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.38	2.40	2.44
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	62.89	63.78	63.58
10	Dry Weight =	57.81	59.23	59.41
11	Moisture Content =	5.45	5.03	5.76
12	Field Dry Density (g/cc)	2.25	2.28	2.30

Satisfy the Limits ☑
Does not satisfy the limits
**** As Furnished by the Customer***

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For **ALCON CTL TESTING PVT. LTD.**

AE W3

Ashwini K, BE, M.Te...
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 161206/2016 **Date: 04/04/2017**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprrehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Gradation for DBM
Sample Location : Ward No.3
Total Weight of Sample : 7500grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
37.5	0	0	0.0	100	100
26.5	466	466	6.2	93.8	90-100
19	1122	1588	21.2	78.8	71-95
13.2	1330	2918	38.9	61.1	56-80
4.75	900	3818	50.9	49.1	38-54
2.36	790	4608	61.4	38.6	28-42
0.3	1366	5974	79.7	20.3	7-21
0.075	1199	7173	95.6	4.4	2-8

Satisfy the Limits ☑
Does not satisfy the limits
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For **ALCON CTL TESTING PVT. LTD.**

AE W3

Ashwini K, BE, M.Tech
Quality Manager

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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 161206/2016 **Date: 04/04/2017**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprrehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Gradation for DBM
Sample Location : Ward No.3
Total Weight of Sample : 7500grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
37.5	0	0	0.0	100	100
26.5	699	699	9.3	90.7	90-100
19	1287	1986	26.5	73.5	71-95
13.2	1241	3227	43.0	57.0	56-80
4.75	988	4215	56.2	43.8	38-54
2.36	887	5102	68.0	32.0	28-42
0.3	1210	6312	84.2	15.8	7-21
0.075	1107	7419	98.9	1.1	2-8

Satisfy the Limits ☑
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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 161206/2016 **Date: 04/04/2017**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprrehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Gradation for DBM.
Sample Location : Ward No.3
Total Weight of Sample : 7500grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
37.5	0	0	0.0	100	100
26.5	488	488	6.5	93.5	90-100
19	1332	1820	24.3	75.7	71-95
13.2	1200	3020	40.3	59.7	56-80
4.75	750	3770	50.3	49.7	38-54
2.36	788	4558	60.8	39.2	28-42
0.3	1258	5816	77.5	22.5	7-21
0.075	1288	7104	94.7	5.3	2-8

Satisfy the Limits ☑
Does not satisfy the limits
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Ashwini K, BE, M.T.
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

AEW3

ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 161206/2016

Date: 04/04/2017

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprrehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Gradation for DBM.
Sample Location : Ward No.3
Total Weight of Sample : 7500grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
37.5	0	0	0.0	100	100
26.5	455	455	6.1	93.9	90-100
19	1455	1910	25.5	74.5	71-95
13.2	1002	2912	38.8	61.2	56-80
4.75	812	3724	49.7	50.3	38-54
2.36	1122	4846	64.6	35.4	28-42
0.3	1100	5946	79.3	20.7	7-21
0.075	1288	7234	96.5	3.5	2-8

Satisfy the Limits ☑
Does not satisfy the limits
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For ALCON CTL TESTING PVT. LTD

Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

AEW3

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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 161206/2016 **Date: 04/04/2017**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprrehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Gradation for DBM
Sample Location : Ward No.3
Total Weight of Sample : 7500grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
37.5	0	0	0.0	100	100
26.5	600	600	8.0	92.0	90-100
19	1330	1930	25.7	74.3	71-95
13.2	1420	3350	44.7	55.3	56-80
4.75	844	4194	55.9	44.1	38-54
2.36	887	5081	67.7	32.3	28-42
0.3	1200	6281	83.7	16.3	7-21
0.075	1022	7303	97.4	2.6	2-8

Satisfy the Limits ☑
Does not satisfy the limits
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AE W3

Ashwini K

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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 161206/2016 **Date: 23/03/2017**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Gradation for GSB
Sample Location : Ward No.3
Total Weight of Sample : 11500grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
53	0	0	0.00	100.0	100
26.5	125	125	1.04	98.96	70-100
9.5	3755	3880	32.33	67.67	50-80
4.75	1855	5735	47.79	52.21	40-65
2.36	2366	8101	67.51	32.49	30-50
0.425	1988	10089	84.08	15.93	15-25
0.075	1200	11289	94.08	5.93	3-10

Satisfy the Limits ☑
Does not satisfy the limits
**** As Furnished by the Customer***
Note:

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3. Corrections / erasing invalidate the test report.
4. Any anomaly / discrepancy in the test report should be brought to our notice within 7 days from the date of issue.

For ALCON CTL TESTING PVT. LTD.

AE IN 3

Ashwini K, BE, M.Te
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

Ground Floor, #35, 4th Main, 4th Stage, Next to Trinity Motors, Indl. Town, Basaveshwar Nagar, Bangalore – 560 079, Karnataka, India, Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 161206/2016

Date: 29/03/2017

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprrehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.

Customer's reference : RDM 161206
Description of Test : Gradation for WMM
Sample Location : Ward No.3
Total Weight of Sample : 12000grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
53	0	0	0.00	100.0	100
45	455	455	3.62	96.38	95-100
22.4	4300	4755	37.81	62.19	60-80
11.2	2660	7415	58.96	41.04	40-60
4.75	1500	8915	70.88	29.12	25-40
2.36	1199	10114	80.42	19.58	15-30
0.6	1232	11346	90.21	9.79	8-22
0.075	766	12112	96.30	3.70	0-8

Satisfy the Limits ☑
Does not satisfy the limits
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For **ALCON CTL TESTING PVT. LTD.**

Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 161206/2016

Date: 23/03/2017

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprrehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.

Customer's reference : RDM 161206
Description of Test : Sand Replacement for GSB
Sample Location : At Site (Ward No 3)

Observations and calculations		Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2311	2455	2345
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6825	6783	6750
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5392	5465	5436
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1254	1297	1253
6	Volume of sand in the hole, V=wb / Ys , cm3	928.89	960.74	928.15
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.49	2.56	2.53
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.83	62.86	63.25
10	Dry Weight =	58.96	58.23	59.65
11	Moisture Content =	5.71	6.95	5.32
12	Field Dry Density (g/cc)	2.35	2.38	2.39

Satisfy the Limits ☑
Does not satisfy the limits

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For ALCON CTL TESTING PVT. LTD.

Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

AE W3

ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 161206/2016

Date: 29/03/2017

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprrehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 1612
Description of Test : Sand Replacement for WMM
Sample Location : At Site (Ward No.3)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2357	2368	2377
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6754	6759	6972
3	Weight of sand in cone w2 (gm)	404	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5421	5492	5387
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1433	1428	1423
6	Volume of sand in the hole, V=wb / Ys , cm3	1061.48	1057 78	1054.07
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2 22	2 24	2 26
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63 76	64.17	64.26
10	Dry Weight =	59 54	60 85	61 44
11	Moisture Content =	6 14	5 98	6 18
12	Field Dry Density (g/cc)	2 08	2 10	2 12

Satisfy the Limits ☑
Does not satisfy the limits

**** As Furnished by the Customer***

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For **ALCON CTL TESTING PVT. LTD.**

Ashwini

Ashwini K, BE, M.Tech
Quality Manager

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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 161206/2016

Date: 04/04/2017

TEST REPORT

Name of Client : Sri. A. Chennareddy, Bengaluru.
Project* : Comprrehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Gradation for DBM.
Sample Location : Ward No.4
Total Weight of Sample : 7500grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
37.5	0	0	0.0	100	100
26.5	599	599	8.0	92.0	90-100
19	1222	1821	24.3	75.7	71-95
13.2	1199	3020	40.3	59.7	56-80
4.75	877	3897	52.0	48.0	38-54
2.36	780	4677	62.4	37.6	28-42
0.3	1366	6043	80.6	19.4	7-21
0.075	1200	7243	96.6	3.4	2-8

Satisfy the Limits ☑
Does not satisfy the limits
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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 161206/2016 **Date: 04/04/2017**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprrehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Sand Replacement for DBM
Sample Location : At Site (Ward No.4)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2333	2366	2301
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6853	6951	6893
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5396	5672	5493
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1272	1283	1269
6	Volume of sand in the hole, V=wb / Ys , cm3	942.22	950.37	940.00
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.48	2.49	2.45
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	65.82	65.21	63.79
10	Dry Weight =	61.59	61.02	58.85
11	Moisture Content =	6.81	6.25	6.26
12	Field Dry Density (g/cc)	2.31	2.33	2.29

Satisfy the Limits ☑
Does not satisfy the limits
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